

SY18U

Engine power

14.6kW/2400rpm

Bucket capacity

* 0.04 m³

Operating weight

1925kg



Excellent Performance



Small and Flexible



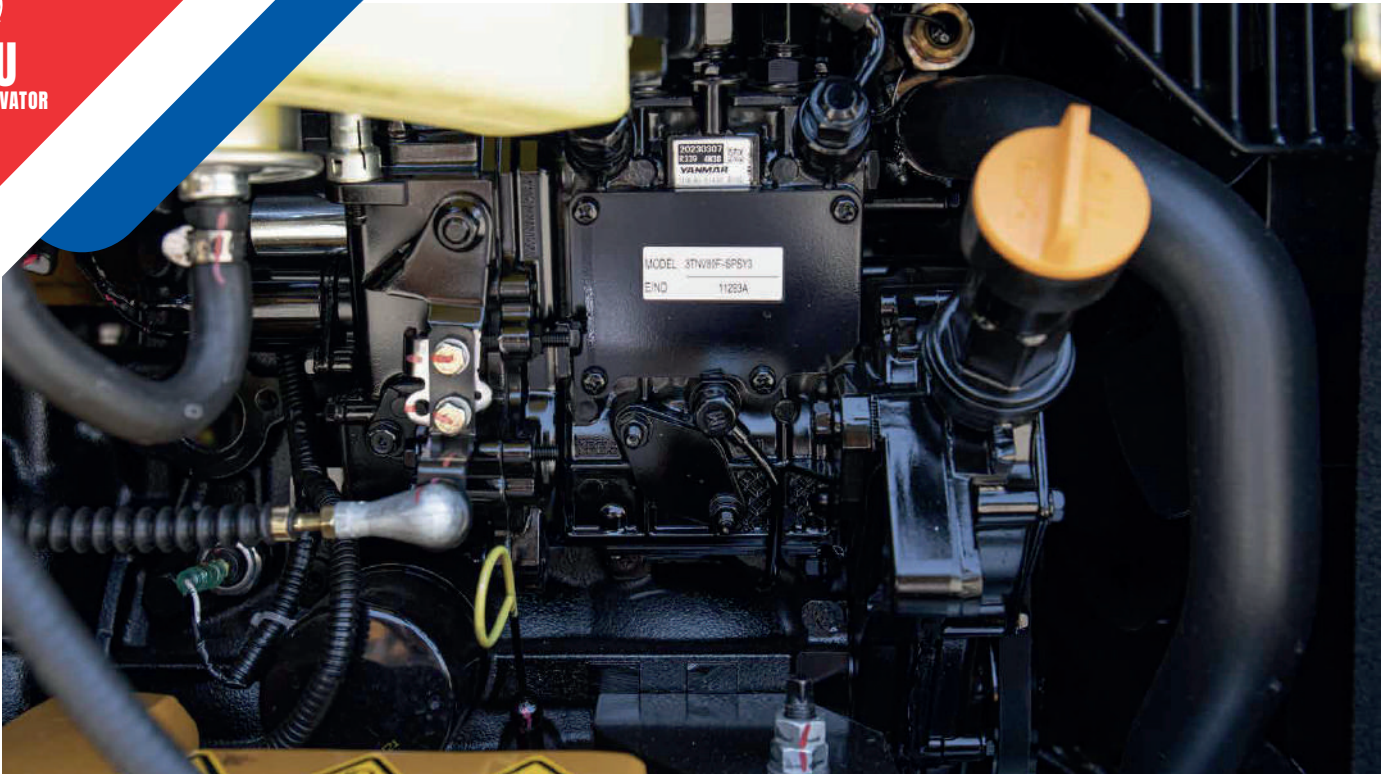
Easy Operation



Economically



* Bucket is optional



Strong power

SY18U is powered by a SANY-customized Yanmar 3TNV80F engine, delivering 14.6kW of power and meeting Stage V and Tier 4f emission standards. With robust and reliable performance, it caters to diverse power needs of customers.

Utilizing a cartridge-type high-precision oil-water separator, it effectively separates water while efficiently filtering impurities in the fuel, providing multiple protections for the engine and extending its lifespan.

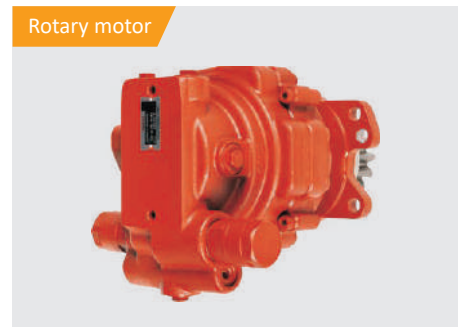
Main pump



Master valve



Rotary motor



The hydraulic system adopts a high-torque main pump and a high-flow main valve to ensure efficient excavation and breaking operations.

Load-sensitive flow distribution system: It can provide and distribute flow according to the need of the system for flow, meeting the requirements of speed regulation and compound actions of executing components. Through hydraulic system optimization, precise engine matching ensures accurate and smooth control of machine operations.



SY18U
MINI-EXCAVATOR



Adjustable track frame to suit all your requirements and increase stability

When things get really tight, the SY18U makes itself very small – with a width of just 980 mm, it can even fit through a garden gate, a door opening or onto a trailer for transport.

If stability is required, the undercarriage can be hydraulically adjusted to a width of 1 350 mm. The dozer blade can also be adjusted to varying widths as needed.



Safe enhanced

Brand new upgrade of cab

Protection for people and machines

Thanks to the ROPS or FOPS-tested operator's platform, SANY's smallest model also performs well in terms of safety. To ensure that people and machines, tools and buildings and the environment are optimally protected, the standard equipment includes a battery disconnection switch and an emergency stop button. The travel alarm helps the operator to pay attention to their work during operation.

The individual that already has everything

The SY16C comes with many standard features that are highly beneficial. For instance, it includes LED work lights that ensure optimal visibility in any condition. Additionally, it boasts a sophisticated load-sensing hydraulic system, which provides precise power adjustment to meet specific operational needs.



*Some country configurations



Upgraded Cab A Brand-new Experience

High-end suspension seat with adjustable armrest, ensuring comfortable operation.

A cover for a key switch is equipped to prevent rainwater ingress. Additionally, the 12V power interface has been upgraded from a small hole to a universal larger hole, enhancing adaptability, and its position has also been adjusted for easier operation.



Convenient maintenance

Electrical components are centrally installed, allowing for easy maintenance by simply opening the front cover.

Full-open covering parts enable maintenance and service directly from the ground, ensuring convenience and easy accessibility.

Air filters, oil-water separators, fuel filters, oil filters, fuse boxes, and other components are easily reachable, making maintenance exceptionally convenient.

Lubricating grease is added through a grease nozzle conveniently arranged on the same side as the excavator, ensuring easy lubrication and maintenance.



Technical specifications

Specification		Main performance	
Overall Weight	1925 kg	Traveling Speed	4.0/3 (km/h)
*Bucket Capacity	0.04m ³	Gyratation Speed	10rpm
Engine	Yanmar 3TNV80F	Grade Ability	58%
Engine Power	14.6kW/2400rpm (SAEJ1995)	Ground Pressure	30kpa
Main Pump Flow	66L/min	Digging Force of Bucket	16.6 kN
Maximum Torque	65.3Nm/1800rpm	Digging Force of Arm	9.2 kN
Displacement	1.226L		

Service Refill Capacities		Traveling part	
Fuel tank	21L	Number of track rollers	2
Hydraulic oil tank	21L	Roller on each side	3
Engine oil	3.4L	Track width	230mm
Antifreeze coolant	5.4L		
Traveling reducer gear oil	2X0.33L		

Lifting capacities of lower dozer blade

		Radius						Digging reach			
		1.5m		2.0m		2.5m		3.0m		Maximal	
		 		 		 		 		 	
Load point height											
3.0m	kg									*265	*265
2.0m	kg							*292	263	*255	225
1.0m	kg			*517	461	*415	333	*366	255	*256	193
0	kg	*662	*651	*774	425	*541	313	*414	245	*298	193
-1.0m	kg	*999	*660	*650	422	*468	309	*342	243	*312	232

Lifting capacities of upper dozer blade

		Radius						Digging reach			
		1.5m		2.0m		2.5m		3.0m		Maximal	
		 		 		 		 		 	
Load point height											
3.0m	kg									*265	*265
2.0m	kg							260	263	222	225
1.0m	kg			462	461	331	333	253	255	190	193
0	kg	*661	*651	425	425	311	313	242	245	190	193
-1.0m	kg	*671	*660	423	422	307	309	240	243	229	232

1. The lifting capacity is calculated in accordance with ISO10560 and SAEJ1097, where the limit coefficient of hydraulic system is 0.87 and tilting limit coefficient is 0.75;

2. Item with * is limited by hydraulic pressure and item without "*" is limited by stability;

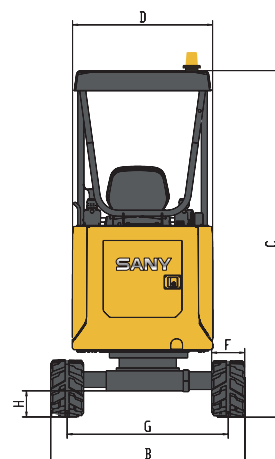
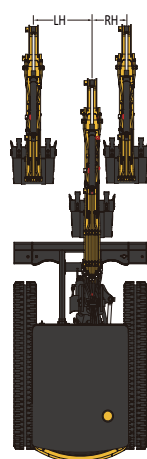
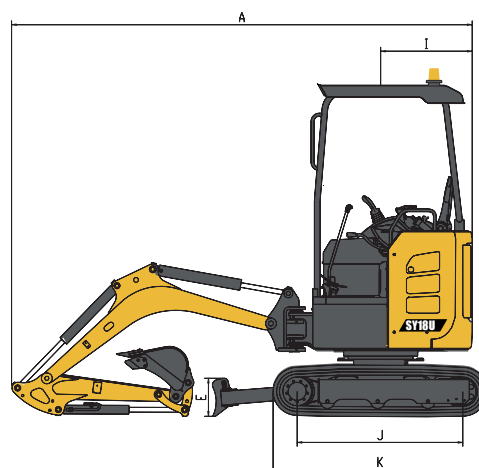
3. Lifting point is front support hole of arm (excluding the weight of the bucket).

It is necessary to deduct from the above lifting capacity if additional accessory is installed, such as bucket;

Machine dimensions

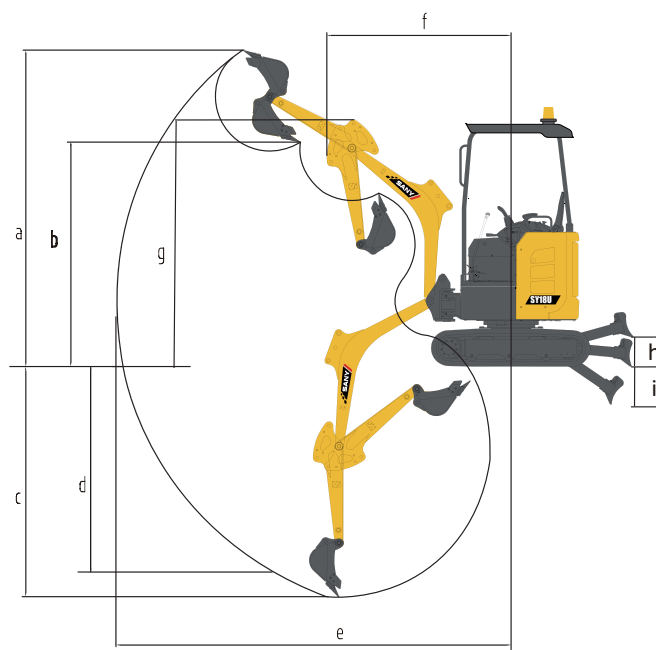
DIMENSIONS (TRANSPORT) (mm) SY18U

A. Total length (during transportation)	3515
B. Total width (during transportation/operation)	980/1350
C. Total height (during transportation)	2370
D. Upper width	980
E. Blade height	270
F. Width of standard track shoe	230
G. Track gauge (during transportation/operation)	750/1120
H. Minimum ground clearance	160
I. Gyration radius of tail	675
J. Grounding length of track	1220
k. Track length	1585



Working Area (mm) Arm 960/1160 SY18U

a. Maximum digging height	3410/3530
b. Maximum unloading height	2350/2475
c. Maximum digging depth	2385/2585
d. Maximum digging depth with vertical boom	2100/2205
e. Maximum digging radius	4010/4135
f. Minimum gyration radius	1705/1715
g. Max. height at Min. gyration radius	2550/2545
h. Maximum lifting height of blade	310
i. Maximum lowering depth of blade	320
rh/lh. Maximum bucket offset	400/625



Standard configuration

Engine	Hydraulic system	Cab
3TNV80F	• Pilot switch control lever	• Retractable seatbelt
12V-55A Alternator	• Single/double acting switch valve	• Adjustable suspension seat
21L fuel tank	• Accumulator	• Foot rest, floor mat
	Auxiliary hydraulic circuit 1	•
	Hydraulic oil cooling	•
	21L hydraulic oil tank	•

Lower traveling body	Electrical control system
230mm wide rubber tracks	• 12V power interface
Two-speed travel	• Main power switch
Retractable lower assembly	•

Alarm system	Others
Engine oil pressure is too low	• 60Ah battery
The fuel level is too low	• Lockable rear engine cover
Coolant temperature is too high	• Travel direction markings on traveling frame
	• Working indicator

Monitoring system instrument	Optional accessories
Hour gauge, fuel tank level gauge	• Arm 1160mm
Engine coolant temperature	• Steel tracks
	• 0.04m ³ bucket

QUALITY IS NOT A GOAL, IT'S OUR COMMITMENT.



The structural components and work equipment of the SY18U are robustly built with SANY's strong design, meaning that the fabrications are designed taking into account the most difficult and demanding operator needs and jobsite requirements



Extensive testing and analysis ensure the structures will have the durability expected and that we deliver a machine that is ready for work in even the most demanding of environments.

With the emphasis on reducing stress points, both the boom and arm go through rigorous fatigue and field testing.



The highest quality suppliers and components are designed to function together as one unit. Integrating these quality components together results in reduced machine downtime, adding significant value to your bottom line.



Because SANY is one of the world's largest manufacturers of hydraulic excavators, you can be sure that our machines have been exposed to a variety of applications. At SANY, our excavators have encountered various challenges, and have had advancements made to be prepared for any job required.

Our reliability stacks up against any competition.

Productivity allows more work to get done with less operating cost.

Not all products are available in all markets. We reserve the right to make changes to specifications and models without prior notice as part of our continuous improvement process. Illustrations may show additional options.